

Fig. 1.

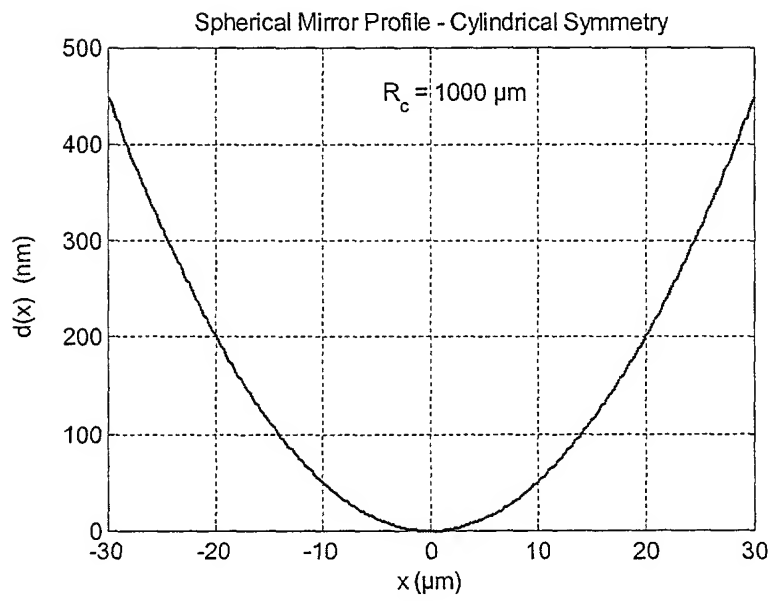


Fig. 2.

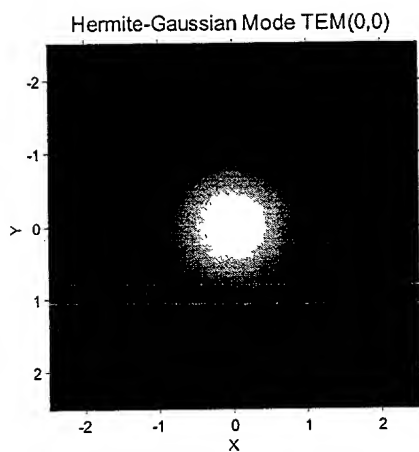


Fig. 3A

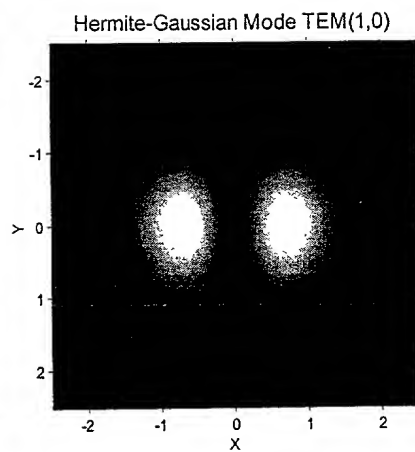


Fig. 3B

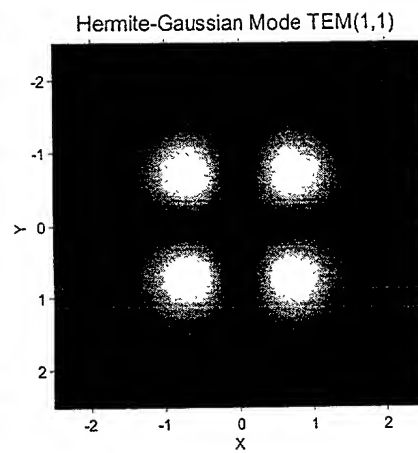


Fig. 3C

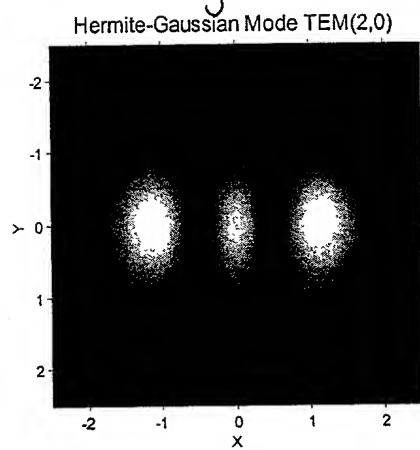


Fig. 3D

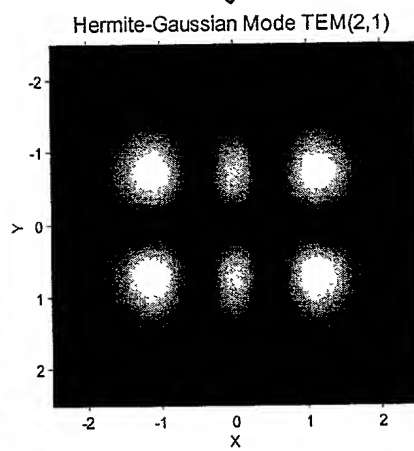


Fig. 3E

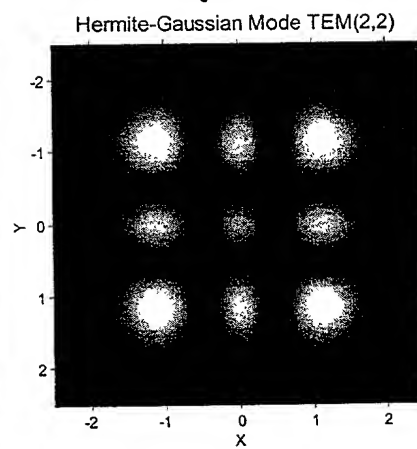


Fig. 3F

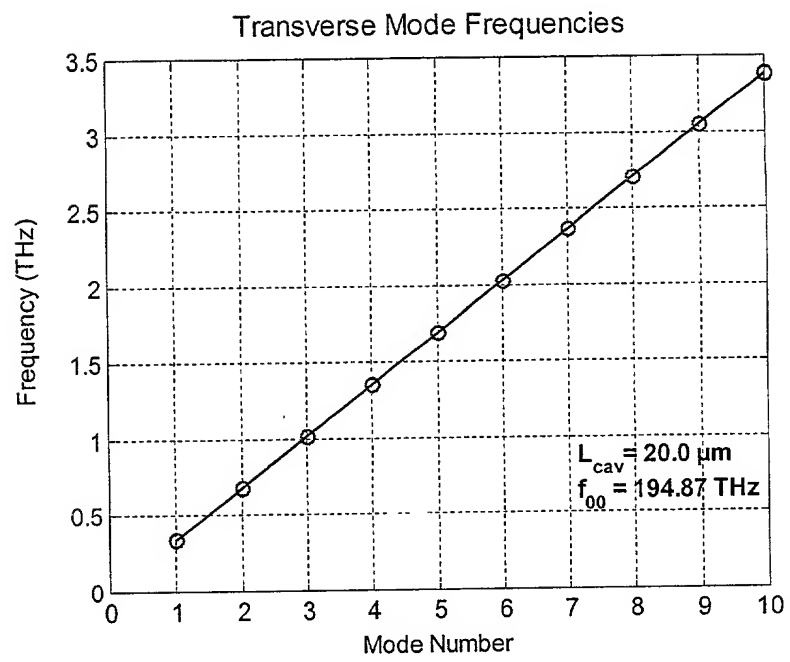


Fig. 4.

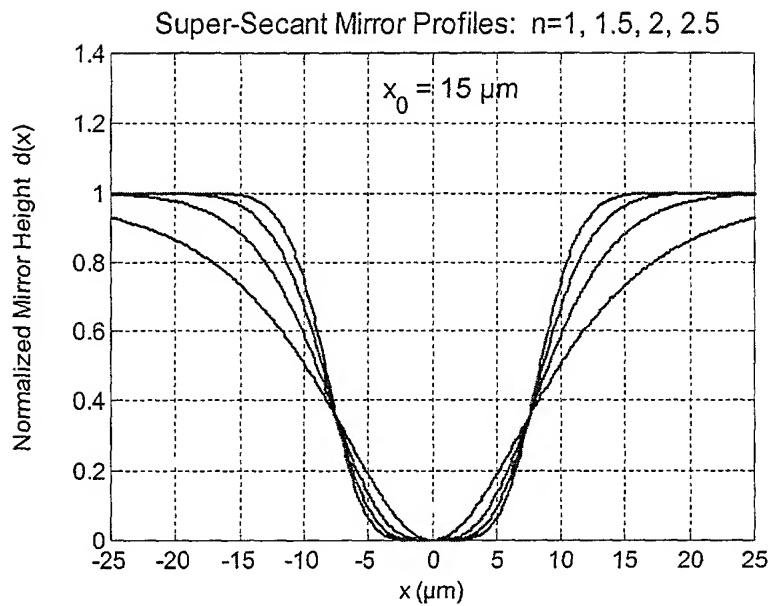


Fig. 5.

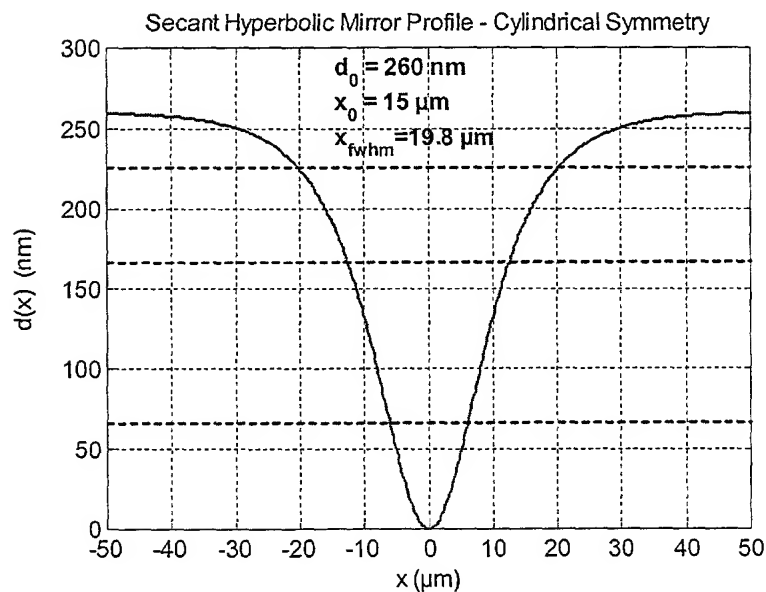


Fig. 6.

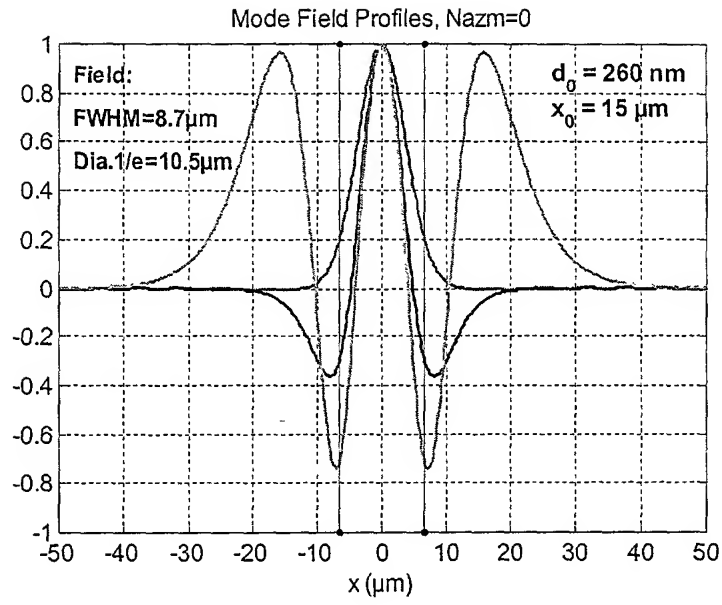


Fig. 7.

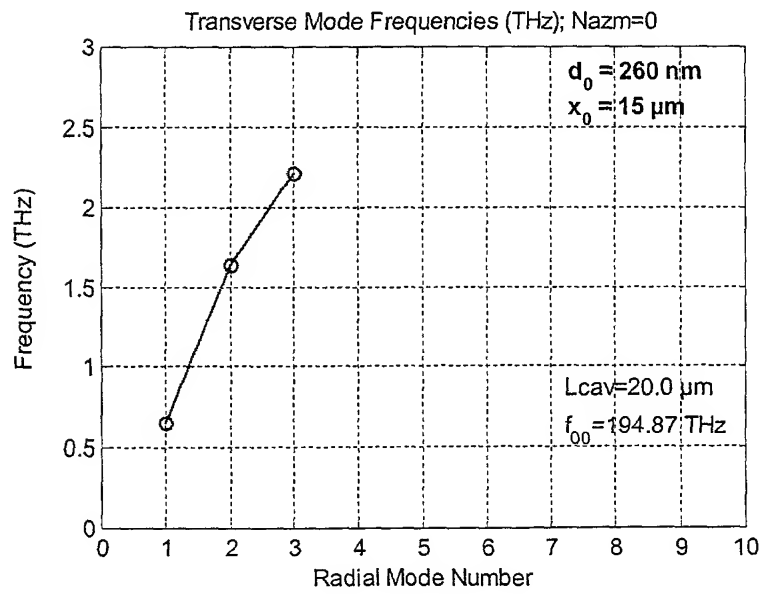


Fig. 8.

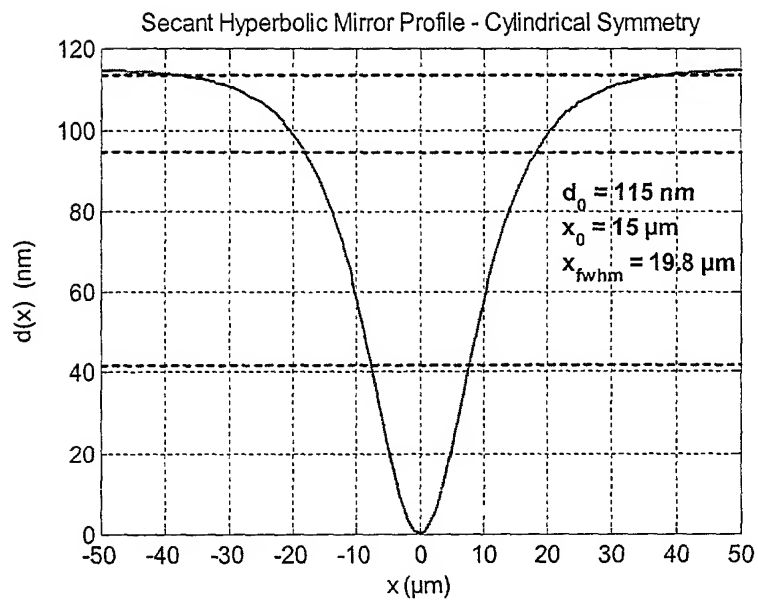


Fig. 9.

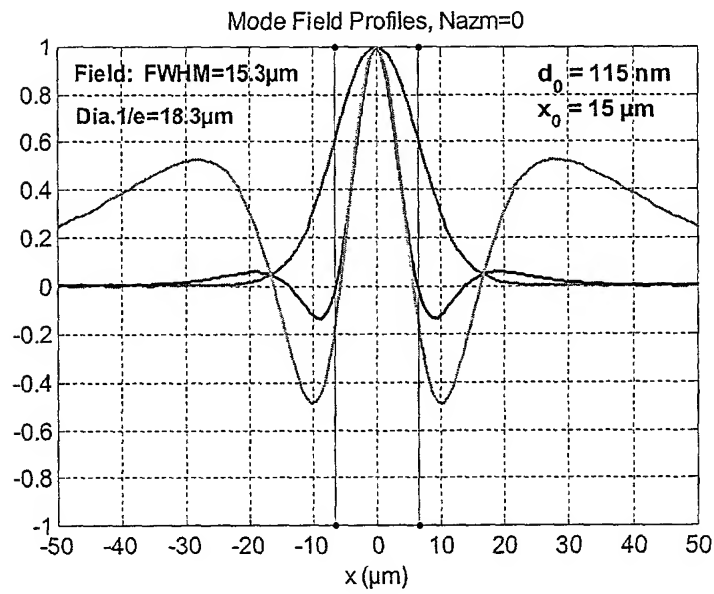


Fig. 10.

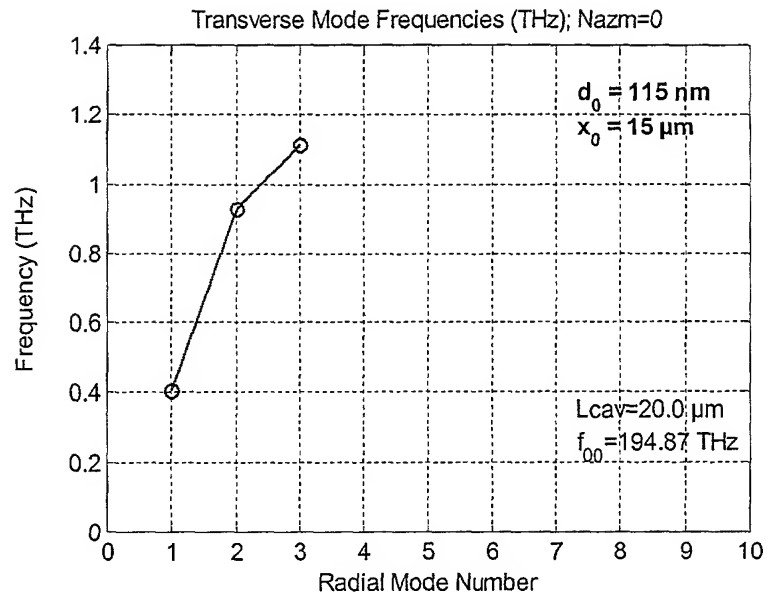


Fig. 11.

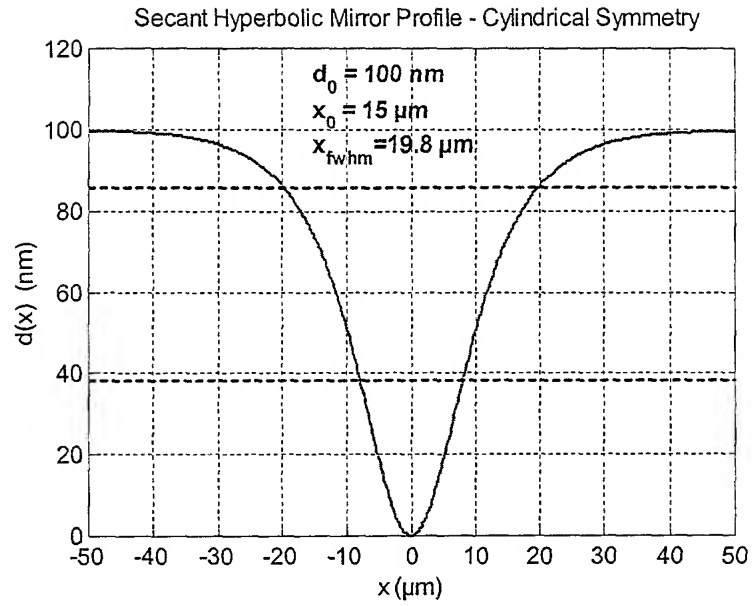


Fig. 12.

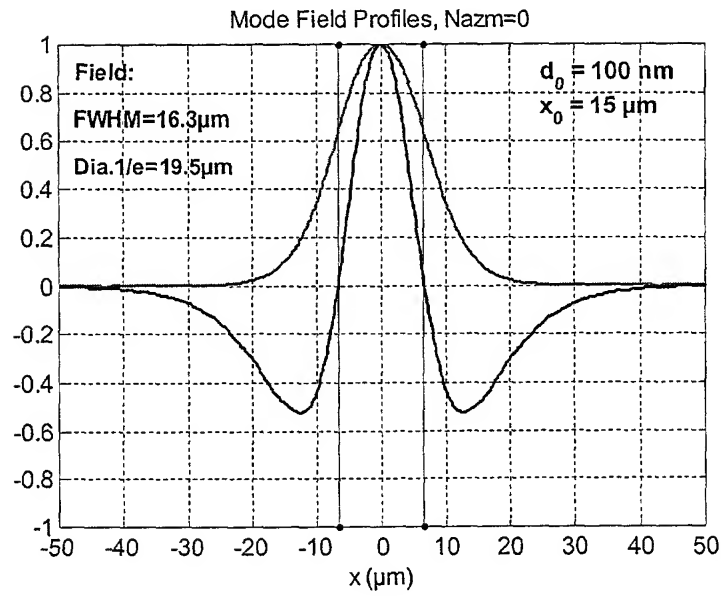


Fig. 13.



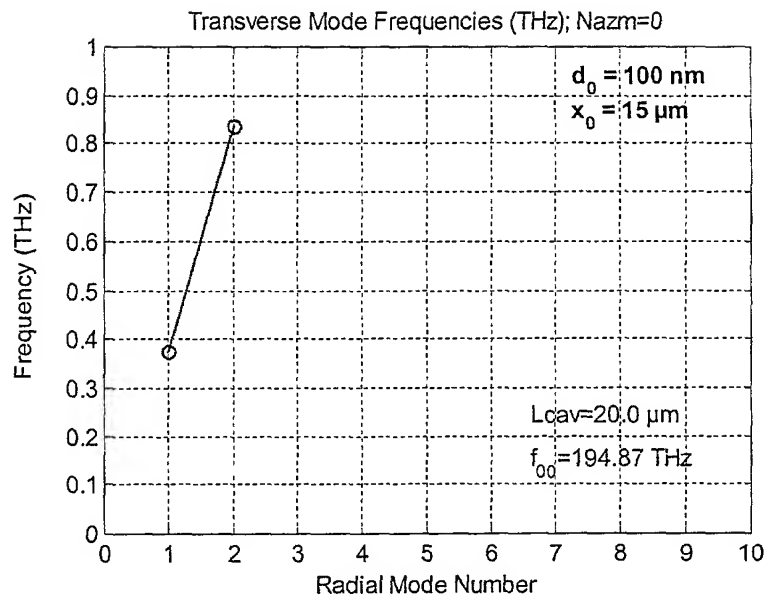


Fig. 14.

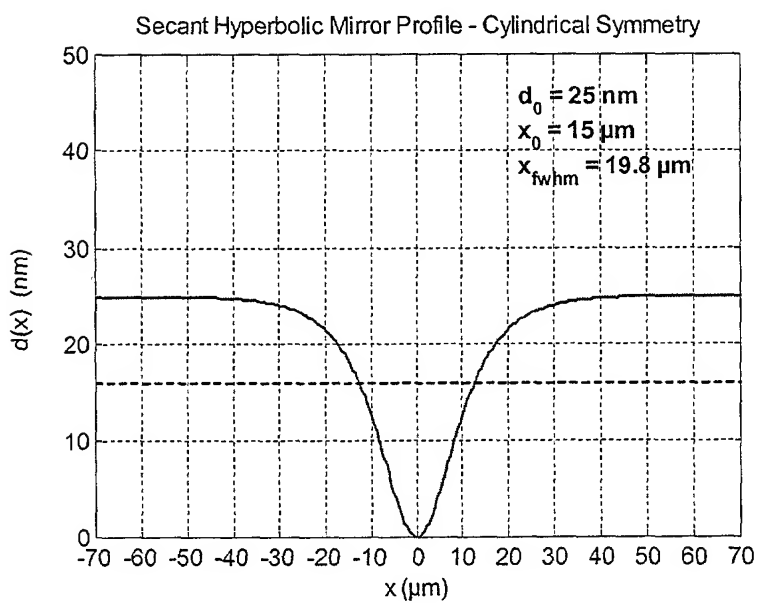


Fig. 15.

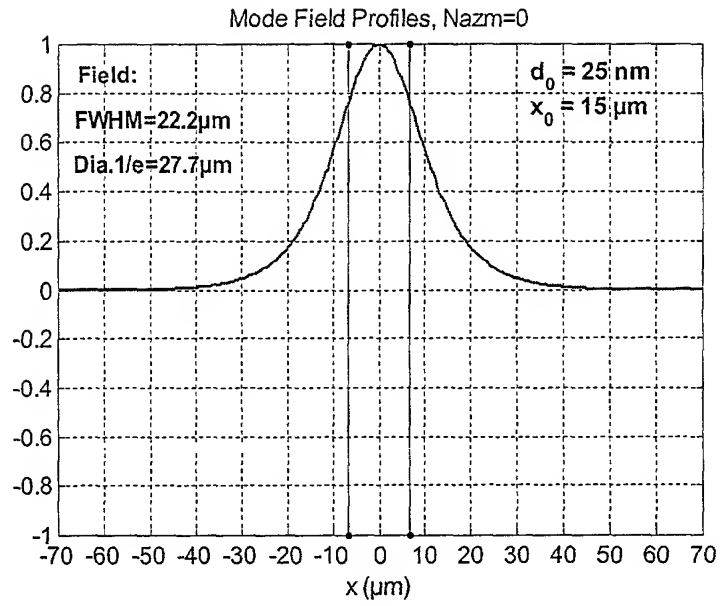


Fig. 16.

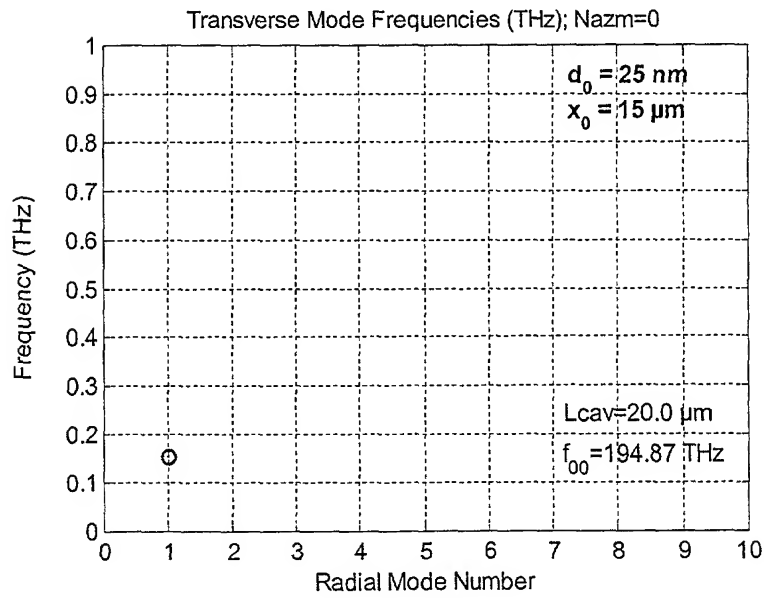


Fig. 17.

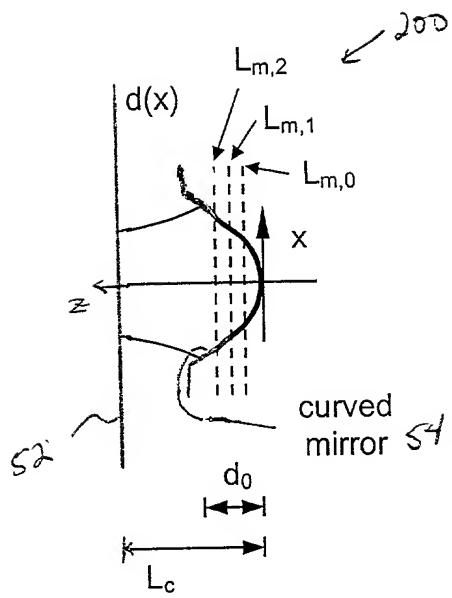


Fig. 18.

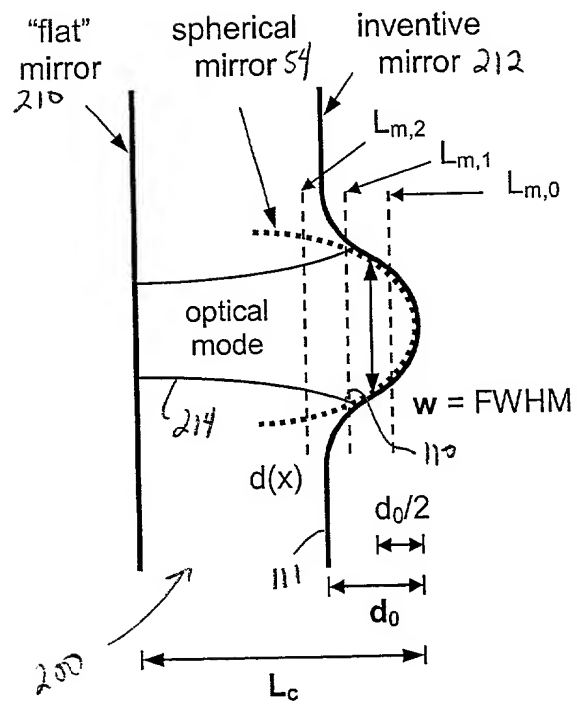


Fig. 19.

# Transverse Modes of a Secant Hyperbolic Mirror Optical Resonator

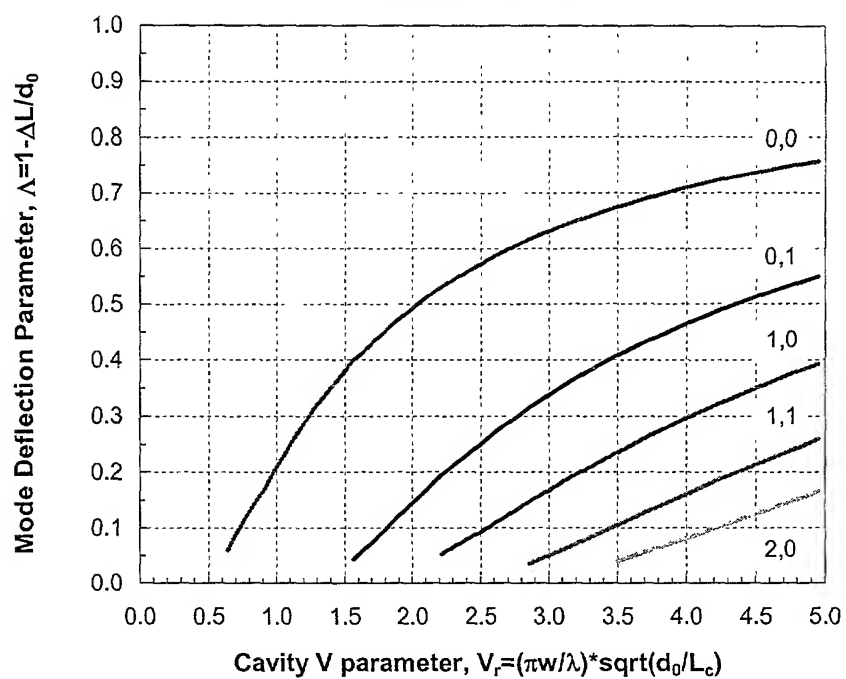


Fig. 20.

# Transverse Modes - Secant Hyperbolic Mirror Resonator

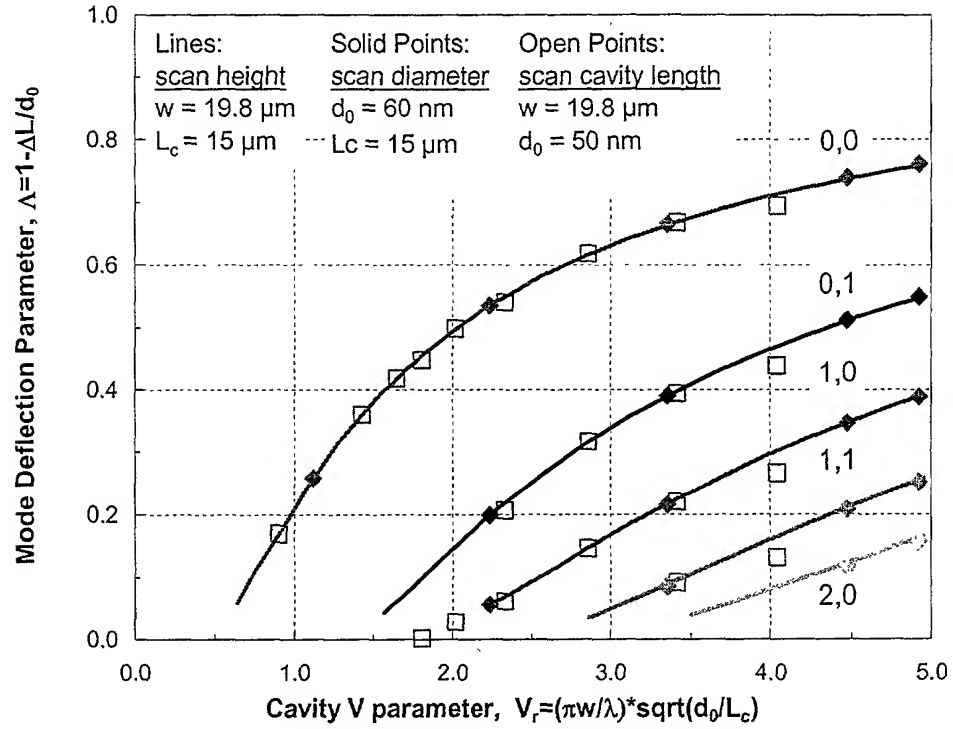


Fig. 21.

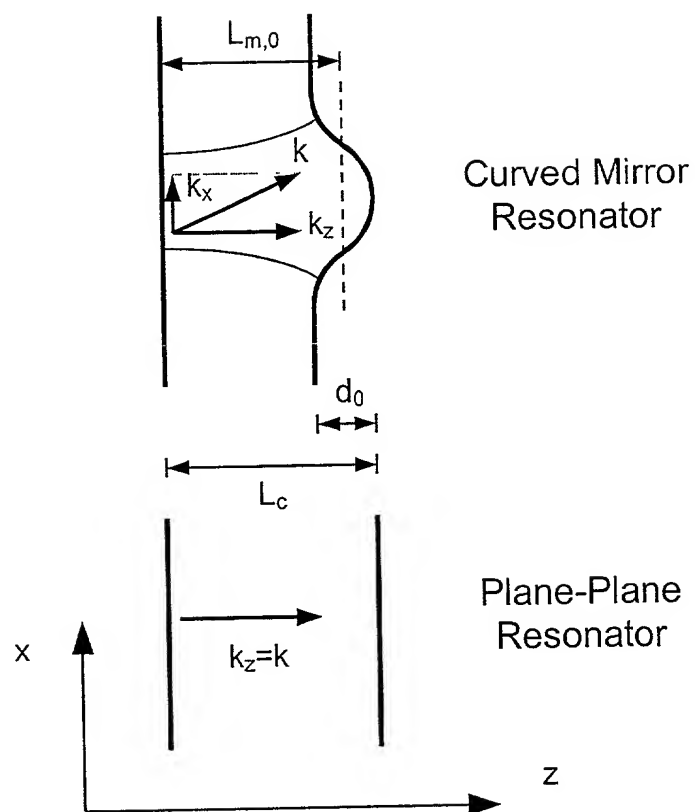
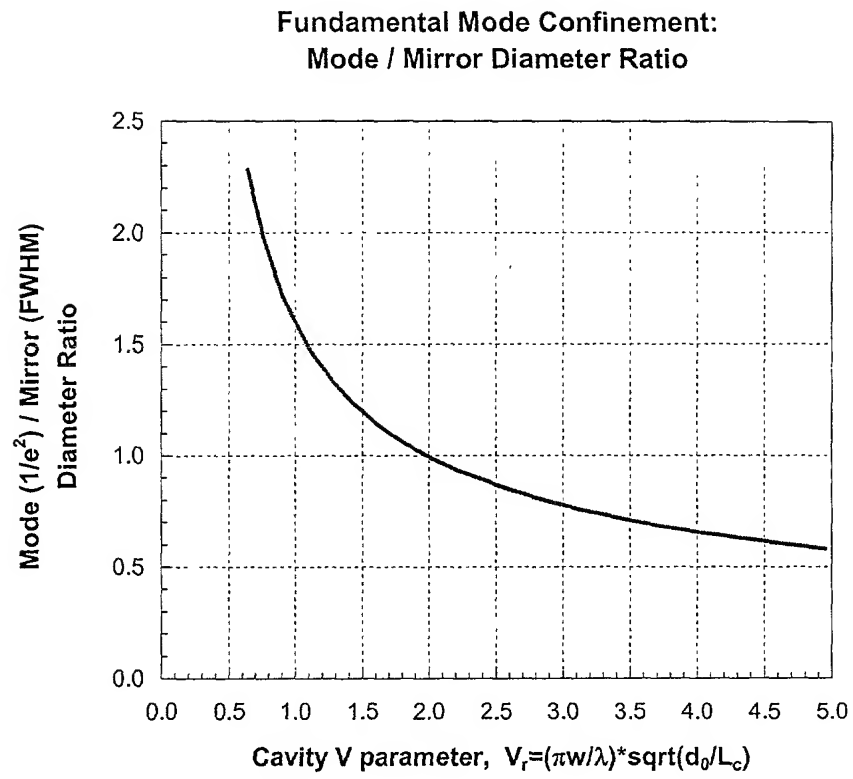


Fig. 22.



**Fig. 23.**

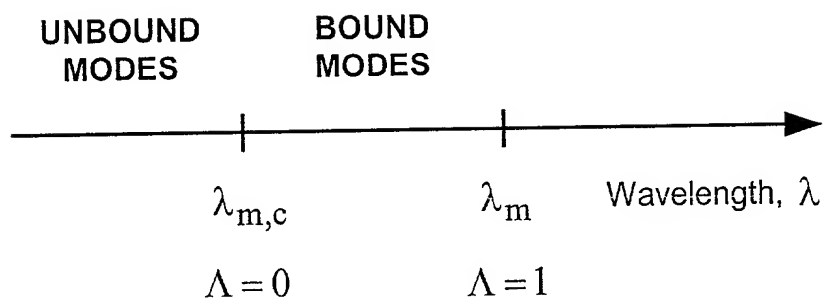


Fig. 24.



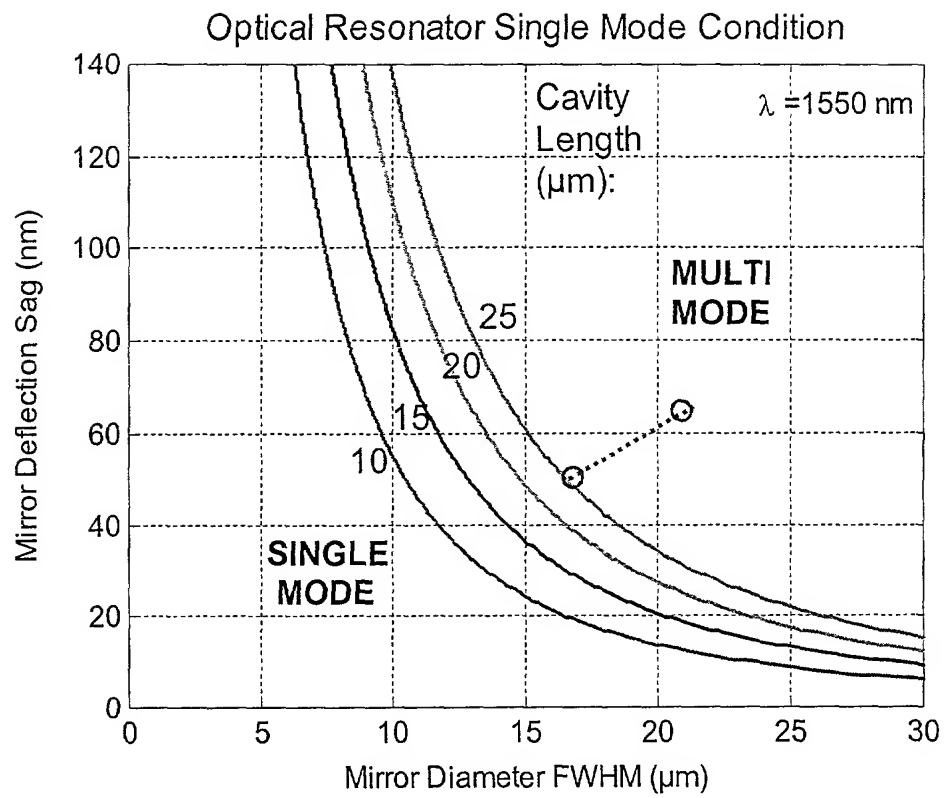


Fig. 25.

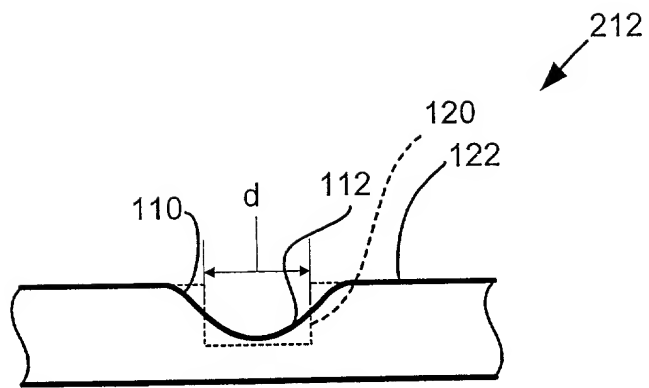


Fig. 20

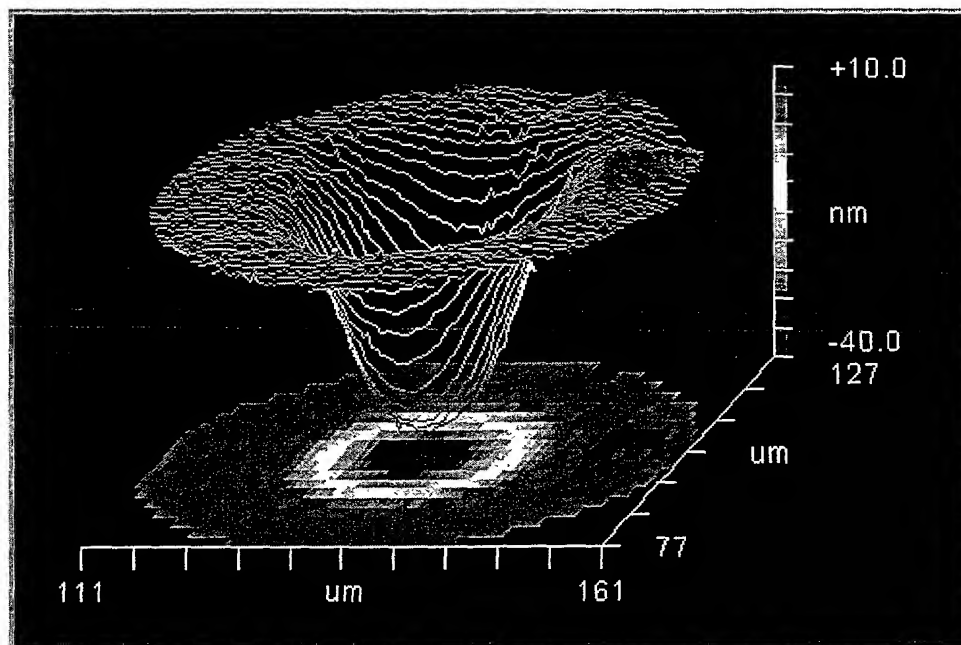


Fig. 27A.

### Mass Transported Mirror Profile

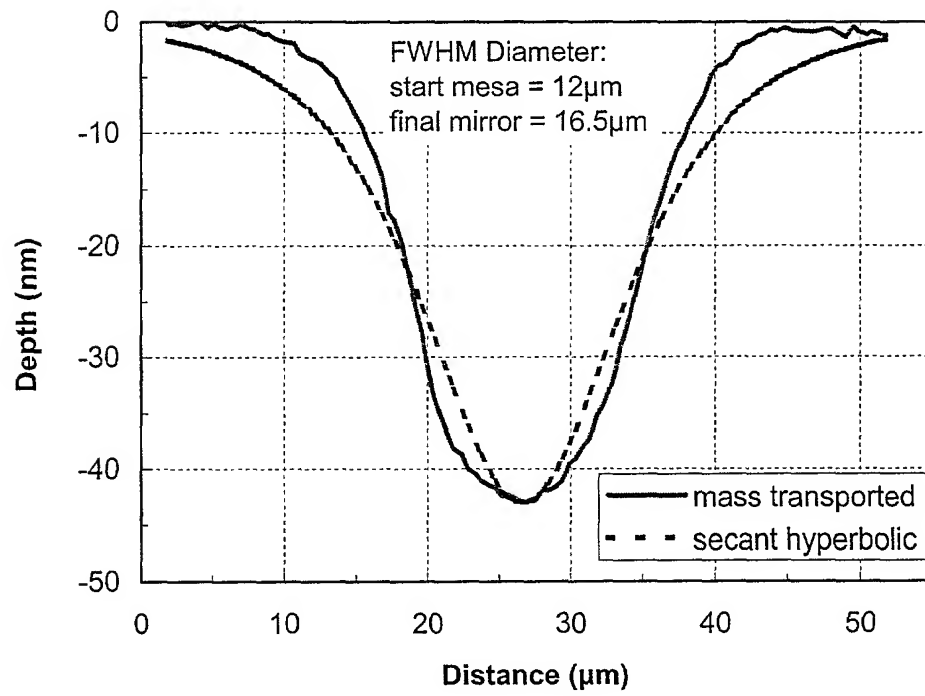


Fig. 27B.

# Transverse Modes of Optical Resonators with Finite Depth Mirrors

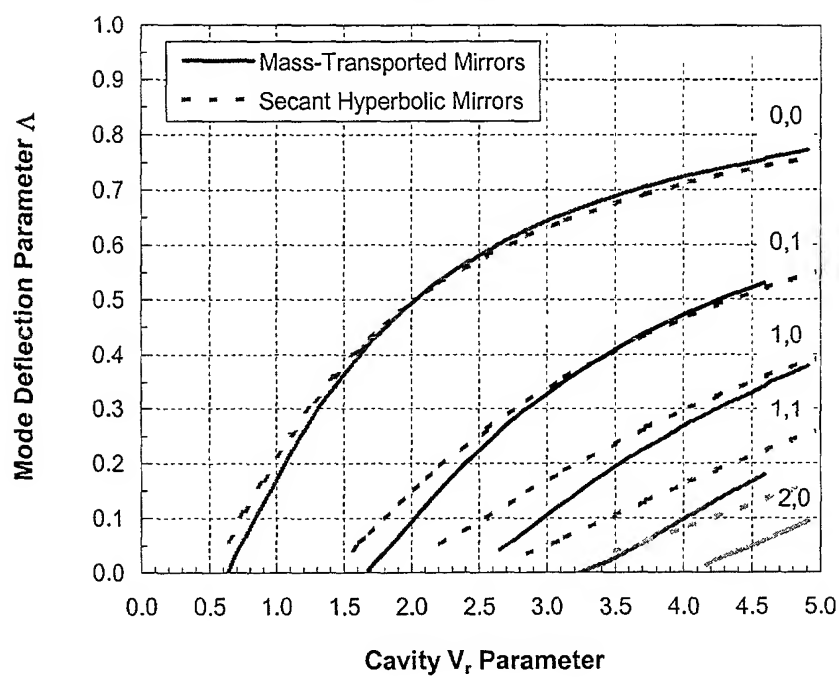


Fig. 28.

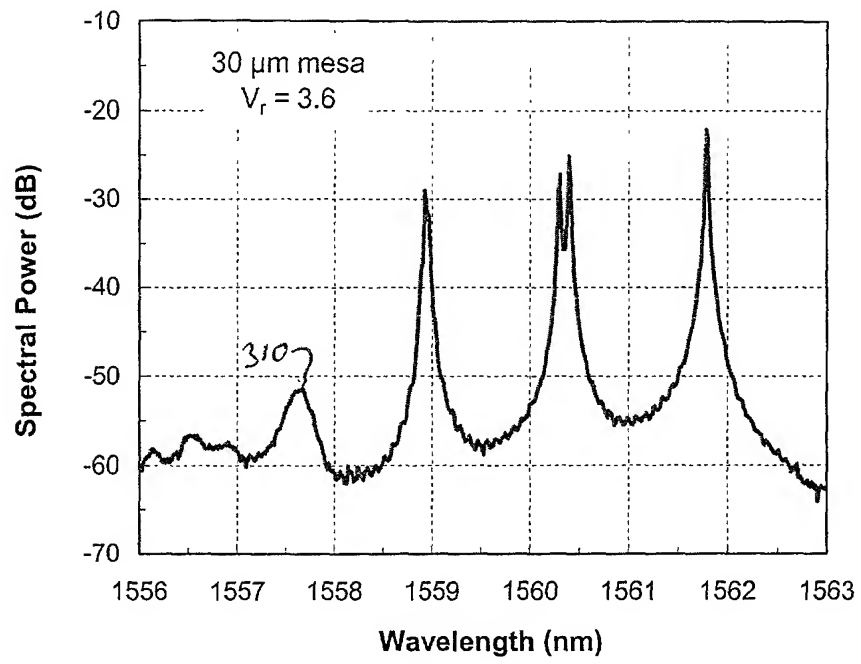


Fig. 29A.

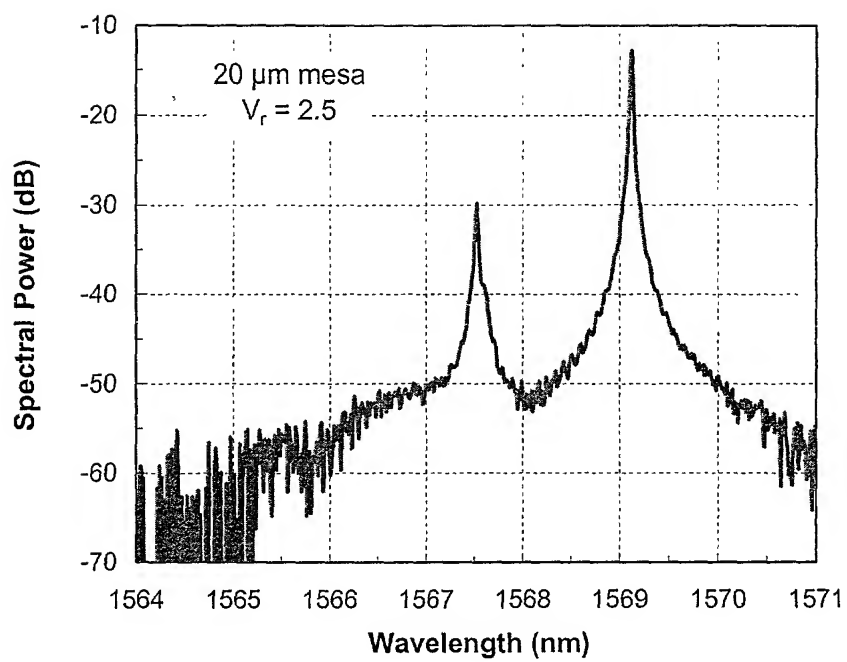


Fig. 29B.

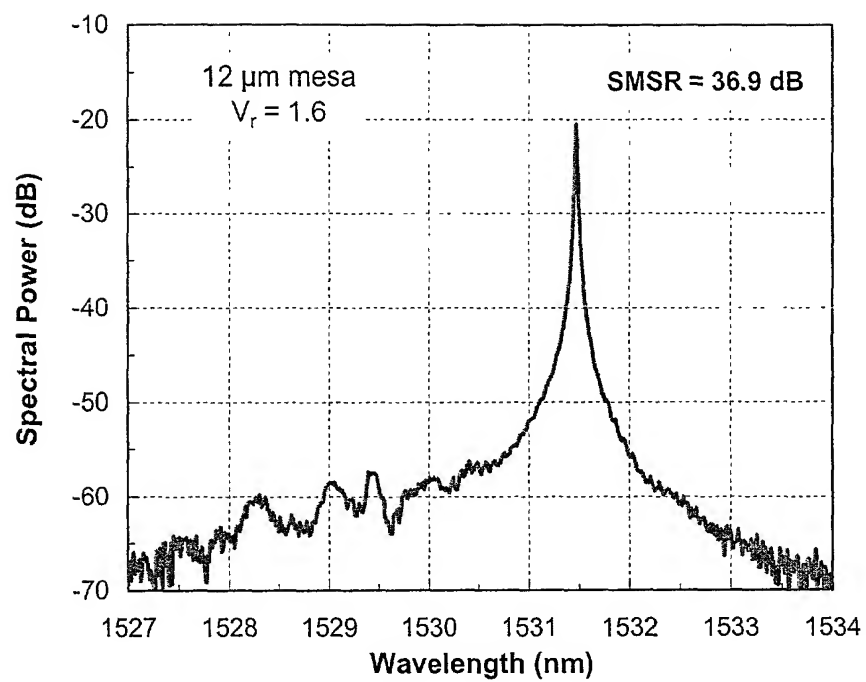


Fig. 29C.



Measured Mode Finesse vs. Mesa Diameter

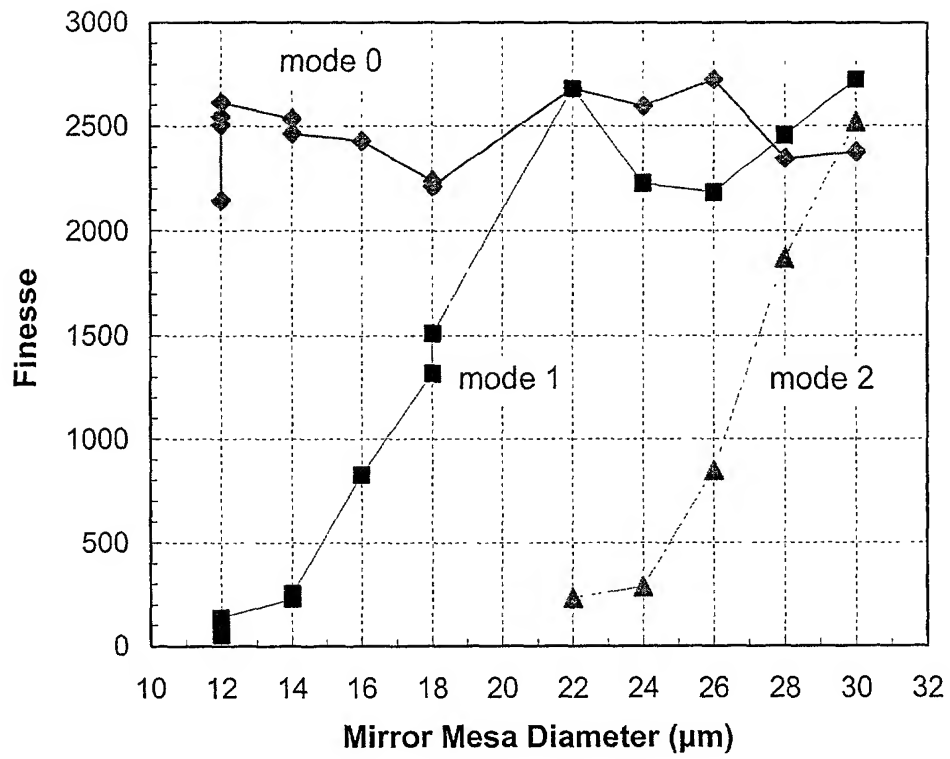


Fig. 30.

Measured Filter Finesse vs. Cavity  $V_r$  Parameter

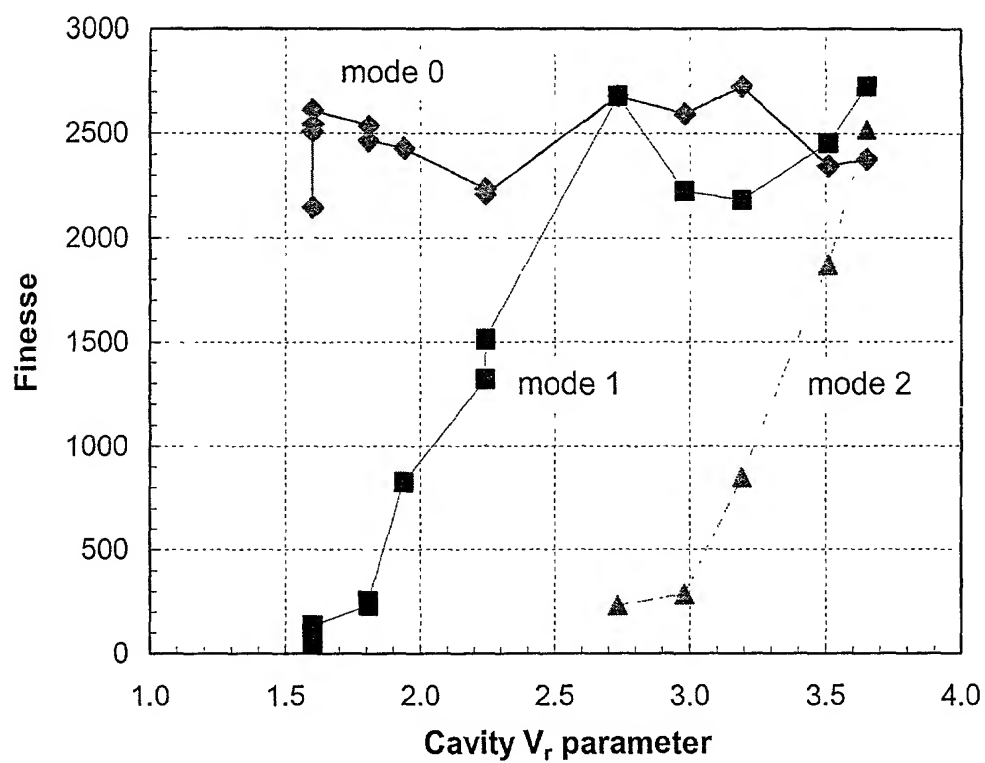


Fig. 31.

Conventional (Spherical) Mirror Filter SMSR (dB)

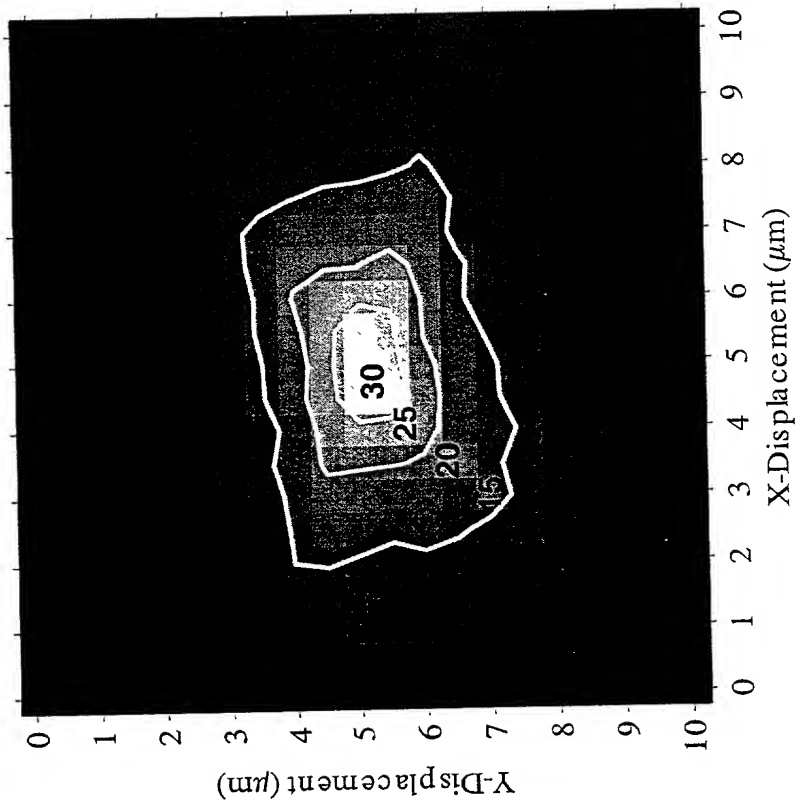


Fig. 32A

Inventive Mirror Filter SMSR (dB)

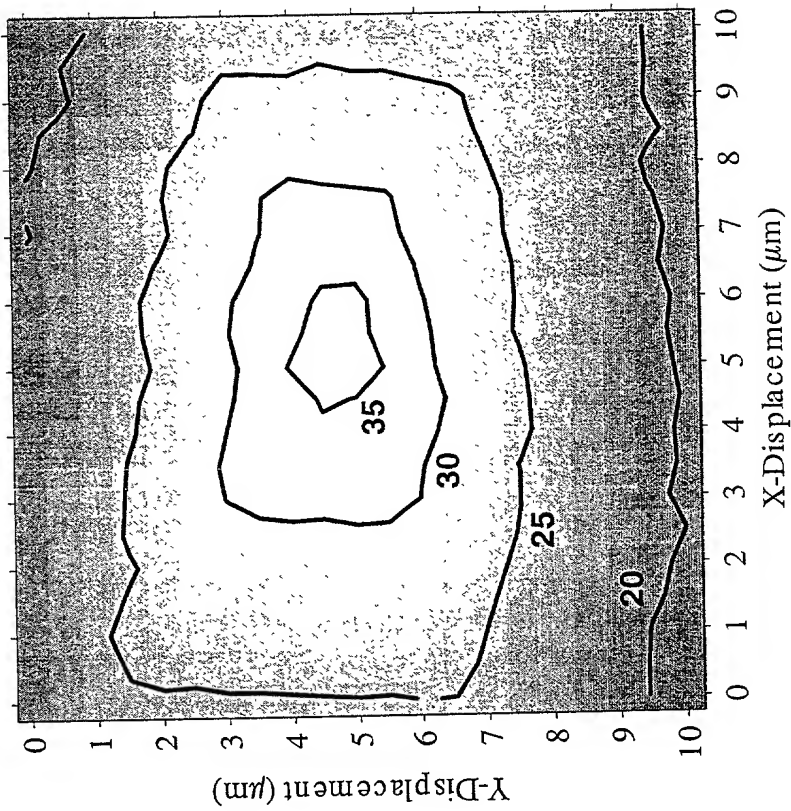


Fig. 32B

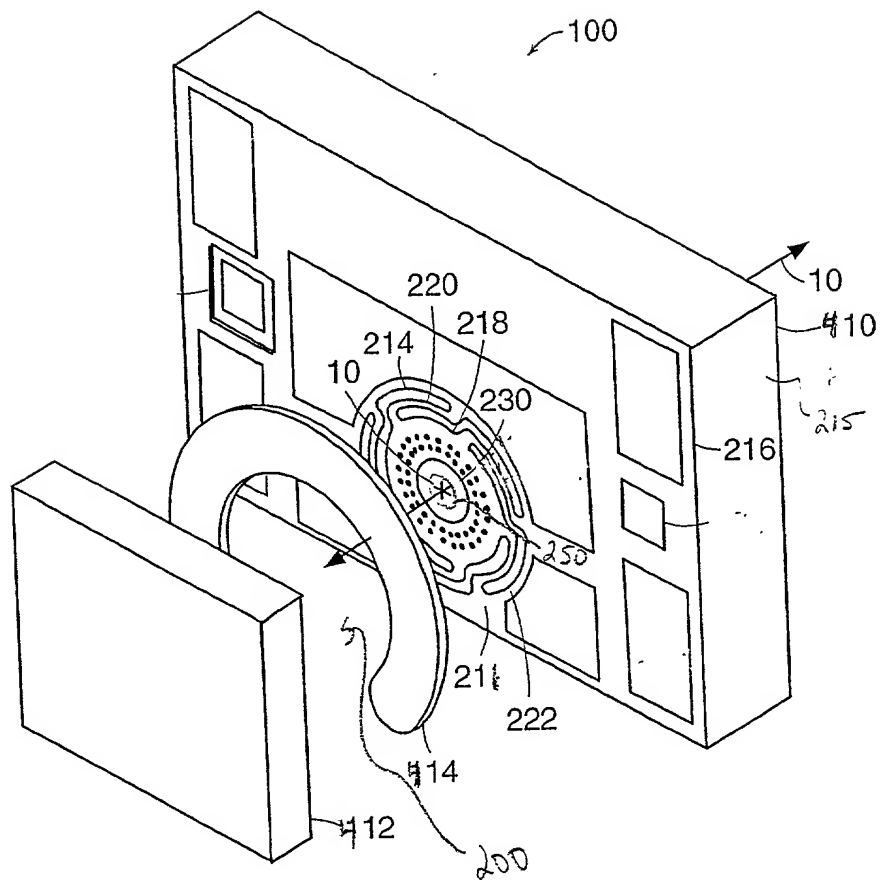


FIG. 33

Measured Tunable Fabry-Perot Filter Spectrum

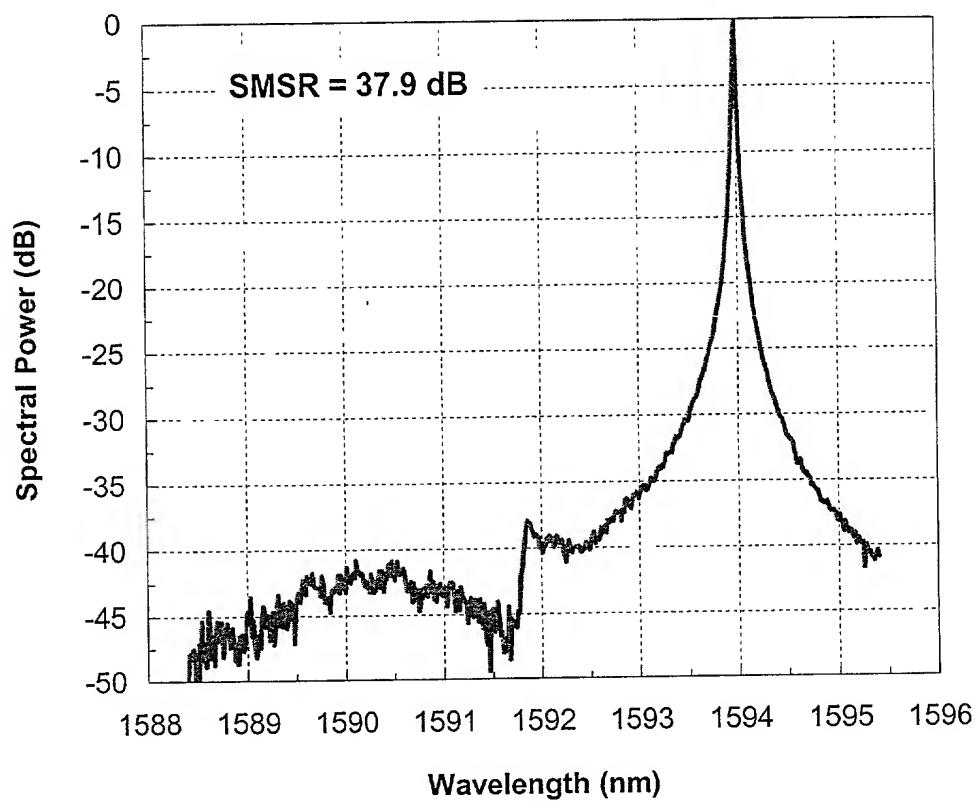


Fig. 34

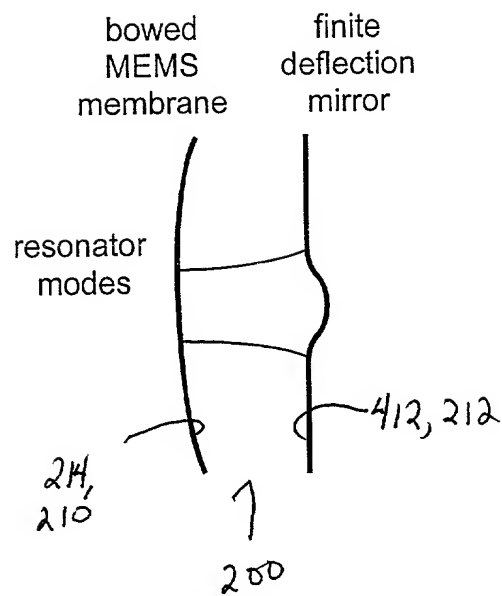


Fig. 35

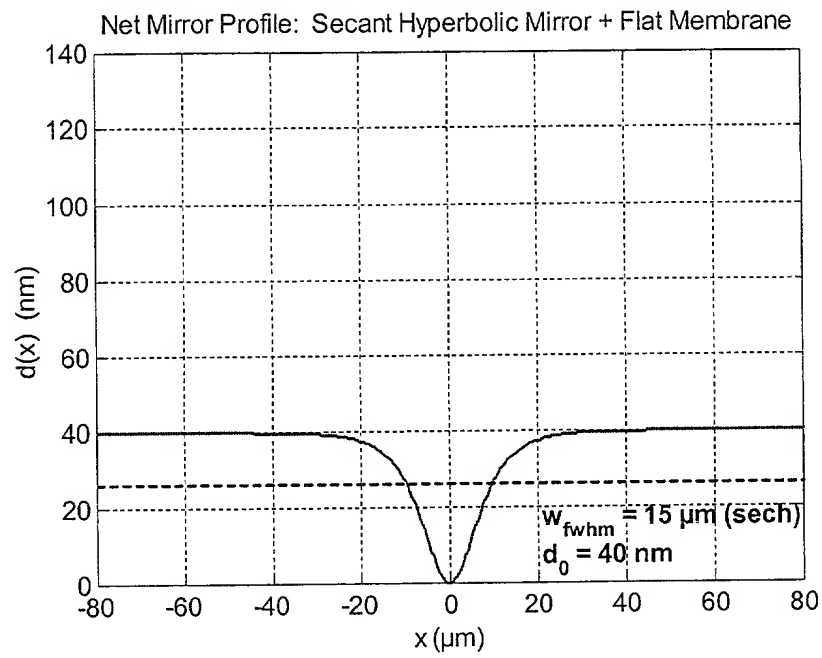


Fig. 36A

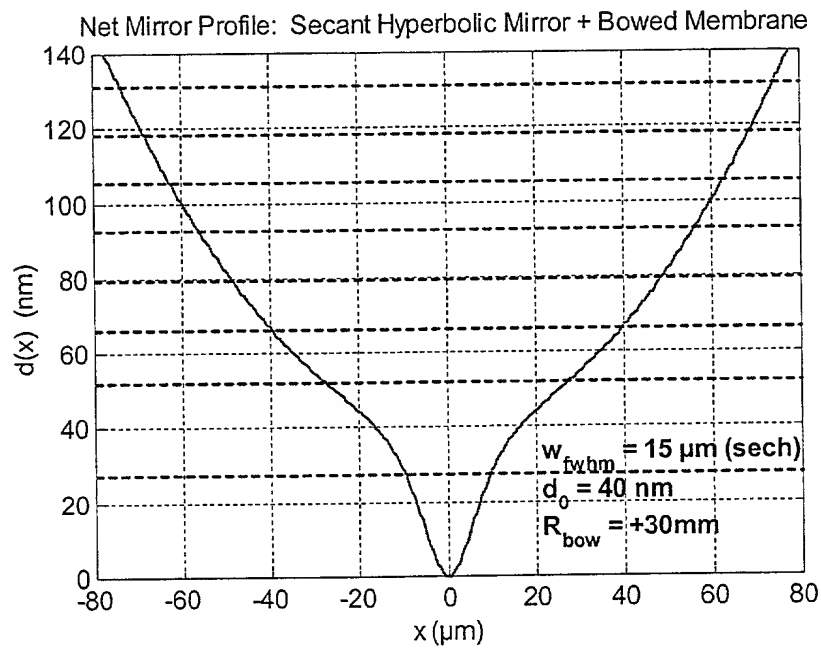


Fig. 36B

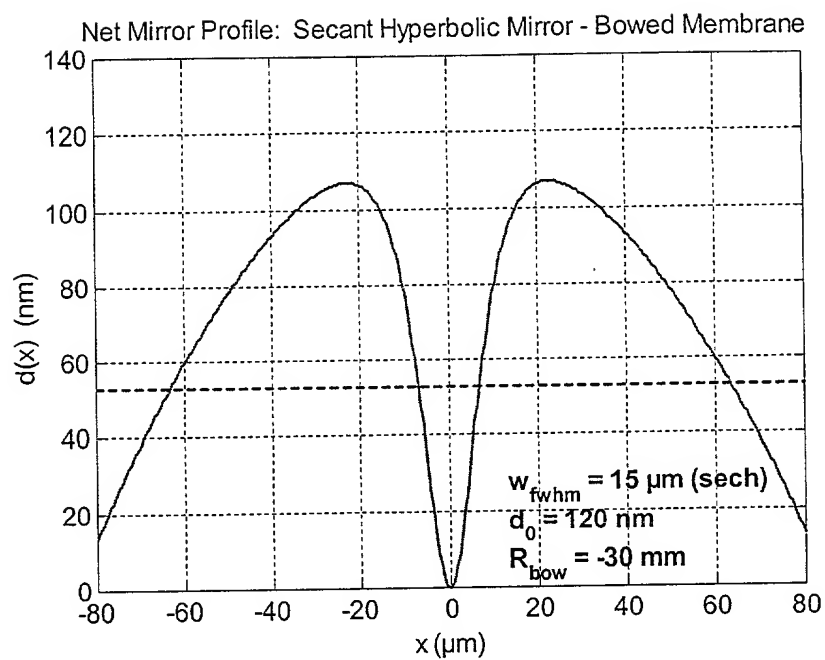


Fig. 36a

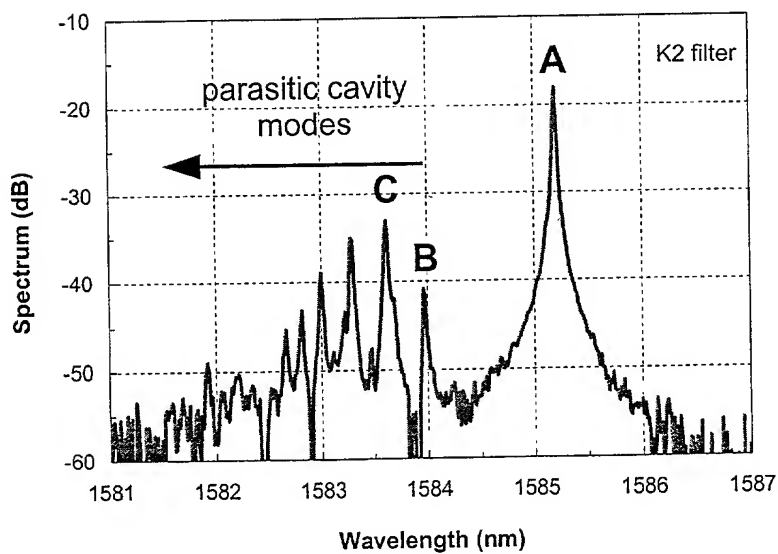


Fig. 37